



St. XAVIER'S HIGH SCHOOL

Date:	Grade: VII	Topic: Lines and Angles	Worksheet No.: 02
Name:	Roll No.		

SECTION A

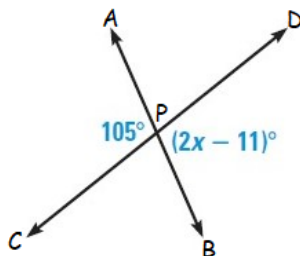
$$5 \times 1 = 5$$

1. Identify the pair of angles: Two angles whose sum is 90° .
2. If two lines intersect, how many vertically opposite angle pairs are formed?
3. If one of the supplementary angles is an acute angle then what will be the type of other such angle?
4. In the figure, $\angle A = 70^\circ$. Find its vertically opposite angle.
5. State true or false: Corresponding angles are equal when lines are parallel.

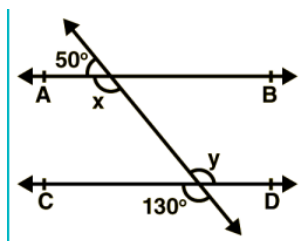
SECTION B

$$7 \times 2 = 14$$

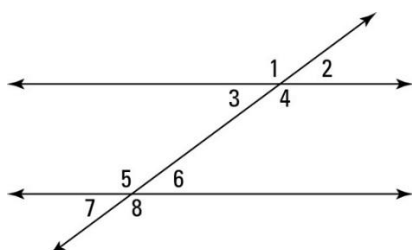
6. In a linear pair, one angle is 40° . Find the other.
7. Find the value of x .



8. If two complementary angles are $(x + 20)^\circ$ and $(2x - 10)^\circ$, find x .
9. Two supplementary angles are in the ratio 2 : 3. Find the angles.
10. Two complementary angles are $(2x)^\circ$ and $(3x)^\circ$, find the value of x .
11. Find the value of x and y



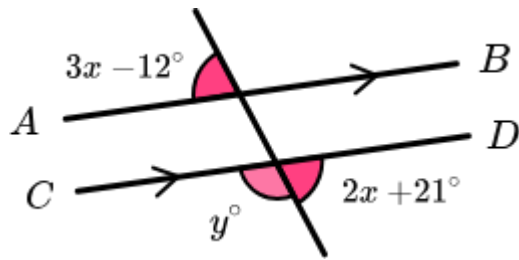
12. Identify the pairs of angles in the given figure.



SECTION C

$$1 \times 3 = 3$$

13. If $AB \parallel CD$ then find the values of x and y and the respective angles.

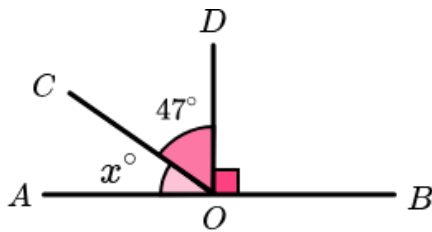


SECTION D

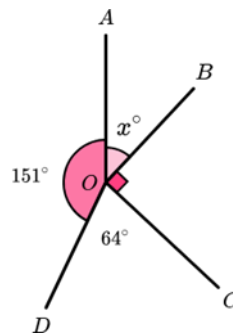
$$2 \times 4 = 8$$

14. Find the value of x

a)



b)



15. Find the value of lettered angles.

